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ABSTRACT OF THE DISCLOSURE

An invention is provided whereby methods and compositions having angiostatic activity are utilized to treat angioproliferative disorders, to prevent conception, and to treat a wide variety of pathologies in which it is desirable to limit the production of new vasculature. Specifically, compositions containing proteinases derived from the pathogen *Porphyromonas gingivalis* capable of treating cancer through disruption of cell-cell and cell-matrix adhesion bonds associated with malignant tumor proliferation are disclosed.